WHAT IS CLAIMED IS:

1	A method comprising: A method comprising
2	 a) tracking, for a set of one or more ads, ad set performance information with respect to a document; and
4	b) aggregating, for the document, tracked ad set performance
5	information.
1	2. The method of claim 1 wherein the ad set performance information includes
2	selection and impression information.
1	3. The method of claim 1 wherein the document is a Web page identified by a
2	URL.
1	4. The method of claim 1 further comprising:
2	c) thresholding the ad set performance information.
1	5. The method of claim 1 further comprising:
2	c) determining a confidence measure of the ad set performance
3	information; and
4	d) combining general ad set performance information and the ad set
5	performance information with respect to the document using the
6	determined confidence measure.
1	6. The method of claim 5 wherein the act of determining a confidence measure
2	uses at least one of a data amount and a data age.
1	7. A method comprising:
2	a) tracking, for a set of one or more ads, ad set performance information
3	with respect to a set of documents, wherein the set of documents is a
4	subset of a document collection; and

5 b) aggregating, for the set of documents, tracked ad set performance 6 information. 1 8. The method of claim 7 wherein the ad set performance information includes 2 selection and impression information. 9. The method of claim 7 wherein the set of documents includes related Web 1 2 pages. 1 10. The method of claim 7 further comprising: 2 c) thresholding the ad set performance information. 1 11. The method of claim 7 further comprising: 2 c) determining a confidence measure of the ad set performance 3 information; and 4 d) combining general ad set performance information and the ad set 5 performance information with respect to the set of documents using the 6 determined confidence measure. 12. The method of claim 11 wherein the act of determining a confidence 1 2 measure uses at least one of a data amount and a data age. 1 13. A method comprising: 2 a) accepting, for a set of one or more ads, performance information for a 3 document; and b) scoring or modifying a score of each of one or more ads using the 4 5 accepted ad set performance information for the document. 14. The method of claim 13 wherein the ad set performance information includes 1 2 selection and impression information.

1

15. The method of claim 13 wherein the document is a Web page identified by a 2 URL. 16. The method of claim 13 wherein the act of scoring or modifying a scoring 1 2 includes: 3 i) determining a first ad score using, at least, general performance 4 information for the ad set, and 5 ii) modifying the first ad score using the accepted ad set 6 performance information for the document. 1 17. The method of claim 16 wherein the act of determining a first score further 2 uses, at least, document information. 1 18. The method of claim 16 wherein the act of determining a first score further 2 uses, at least, ad targeting information. 19. The method of claim 16 wherein the act of determining a first score further 1 2 uses, at least, ad relevance information. 1 20. The method of claim 13 wherein the act of scoring or modifying a scoring 2 includes: 3 i) determining mixed performance information using, at least, 4 general performance information for the ad set and the accepted ad 5 set performance information for the document, and 6 ii) scoring the ad using the determined mixed performance 7 information. 21. The method of claim 20 wherein the act scoring the ad further uses, at least, 1 2 document information.

- 1 22. The method of claim 20 wherein the act of scoring the ad further uses, at
- 2 least, ad targeting information.
- 1 23. The method of claim 20 wherein the act of scoring the ad further uses, at
- 2 least, ad relevance information.
- 1 24. A method comprising:
- a) accepting, for a set of one or more ads, performance information for a
- 3 set of documents, wherein the set of documents is a subset of a document
- 4 collection; and
- b) scoring or modifying a score of each of one or more ads using the
- 6 accepted ad set performance information for the set of documents.
- 1 25. The method of claim 24 wherein the ad set performance information includes
- 2 selection and impression information.
- 1 26. The method of claim 24 wherein the set of documents includes related Web
- 2 pages.
- 1 27. The method of claim 24 wherein the act of scoring or modifying a score
- 2 includes:
- i) determining a first ad score using, at least, general performance
- 4 information for the ad set, and
- 5 ii) modifying the first ad score using the accepted ad set performance
- 6 information for the set of documents.
- 1 28. The method of claim 27 wherein the act of determining a first score further
- 2 uses, at least, document information.
- 1 29. The method of claim 27 wherein the act of determining a first score further
- 2 uses, at least, ad targeting information.

- 1 30. The method of claim 27 wherein the act of determining a first score further 2 uses, at least, ad relevance information. 1 31. The method of claim 24 wherein the act of scoring or modifying a score 2 includes: 3 i) determining mixed performance information using, at least, 4 general performance information for the ad set and the accepted ad 5 set performance information for the set of documents, and 6 ii) scoring the ad using the determined mixed performance 7 information. 1 32. The method of claim 31 wherein the act scoring the ad further uses, at least, 2 document information. 1 33. The method of claim 31 wherein the act of scoring the ad further uses, at 2 least, ad targeting information. 1 34. The method of claim 31 wherein the act of scoring the ad further uses, at 2 least, ad relevance information. 1 35. A method comprising: 2 a) accepting targeting function performance for a document; and 3 b) scoring or modifying a score of each of one or more ads using the 4 accepted targeting function performance for the document. 1 36. The method of claim 35 wherein the ad performance includes selection and 2 impression information.
- 1 37. The method of claim 35 wherein the document is a Web page identified by a
- 2 URL.

1	38. The method of claim 35 wherein the act of scoring includes
2	i) selecting a scoring function using, at least, the accepted
3	targeting function performance for the document, and
4	ii) applying ad information and document information to the
5	selected scoring function to generate a score.
1	39. The method of claim 38 wherein the scoring function is a function selected
2	from a set of functions including (A) keyword targeting, (B) document content
3	targeting, and (C) host content targeting.
1	40. The method of claim 35 wherein the act of scoring includes
2	i) selecting one or more parameters of a scoring function using, at
3	least, the accepted targeting function performance for the
4	document, and
5	ii) applying ad information and document information to the scoring
6	function with the selected one or more parameters to generate a
7	score.
1	41. A method comprising:
2	a) accepting targeting function performance for a set of documents; and
3	b) scoring or modifying a score of each of one or more ads using the
4	accepted targeting function performance for the set of documents, whereir
5	the set of documents is a subset of a document collection.
1	42. The method of claim 41 wherein the ad performance includes selection and
2	impression information.
1	43. The method of claim 41 wherein the set of documents includes related Web
2	pages.
1	44. The method of claim 41 wherein the act of scoring includes

2	 selecting a scoring function using, at least, the accepted
3	targeting function performance for the set of documents, and
4	ii) applying ad information and document information to the
5	selected scoring function to generate a score.
1	45. The method of claim 44 wherein the scoring function is a function selected
2	from a set of functions including (A) keyword targeting, (B) document content
3	targeting, and (C) host content targeting.
1	46. The method of claim 41 wherein the act of scoring includes
2	i) selecting one or more parameters of a scoring function using, at
3	least, the accepted targeting function performance for the set of
4	documents, and
5	ii) applying ad information and document information to the scoring
6	function with the selected one or more parameters to generate a
7	score.
1	47. A method for determining a set of ads eligible to be served with a document,
2	the method comprising:
3	a) determining a first set of ads;
4	 b) accepting ad performance information for the document;
5	c) determining a number of best performing ads for the document; and
6	d) determining a final set of ads using the first set of ads and the number
7	of best performing ads determined.
1	48. A method for determining a set of ads eligible to be served with a document,
2	the method comprising:
3	a) determining a first set of ads;
4	b) accepting ad performance information for a set of documents to which
5	the document belongs, wherein the set of documents is a subset of a
6	collection of documents;

7 c) determining a number of best performing ads for the set of documents; 8 and 9 d) determining a final set of ads using the first set of ads and the number 10 of best performing ads determined. 1 49. A method comprising: 2 a) determining for a document, at least two concepts; 3 b) determining for each of the at least two concepts, one or more ads; 4 c) determining for each of the at least two concepts, a concept 5 performance score; and 6 d) updating, for at least one of the ads, an ad performance score using a 7 concept performance score of the concept with which the ad is associated. 1 50. The method of claim 49 wherein the act of determining a concept 2 performance score uses document-specific ad performance scores of ads 3 associated with the concept. 1 51. The method of claim 49 wherein the document belongs to a group, and 2 wherein the act of determining a concept performance score uses 3 group-specific ad performance scores of ads associated with the concept. 1 52. The method of claim 51 wherein the document is a Web page and wherein 2 the group is Web pages belonging to a Website. 1 53. The method of claim 51 wherein the group is a cluster of related documents. 54. The method of claim 51 wherein the group is a classification of documents. 1 55. Apparatus comprising: 2 a) means for tracking, for a set of one or more ads, ad set performance 3 information with respect to a document; and

4 5	b) means for aggregating, for the document, tracked ad set performance information.
1 2	56. The apparatus of claim 55 wherein the ad set performance information includes selection and impression information.
1	57. The apparatus of claim 55 wherein the document is a Web page identified by a URL.
1	58. The apparatus of claim 55 further comprising:
2	 c) means for thresholding the ad set performance information.
1 2 3 4 5	 59. The apparatus of claim 55 further comprising: c) means for determining a confidence measure of the ad set performance information; and d) means for combining general ad set performance information and the ad set performance information with respect to the document using the determined confidence measure.
1	60. The apparatus of claim 59 wherein the means for determining a confidence
2	measure use at least one of a data amount and a data age.
1 2 3 4 5 6	 61. Apparatus comprising: a) means for tracking, for a set of one or more ads, ad set performance information with respect to a set of documents, wherein the set of documents is a subset of a document collection; and b) means for aggregating, for the set of documents, tracked ad set performance information.
1	62. The apparatus of claim 61 wherein the ad set performance information
2	includes selection and impression information.

- 1 63. The apparatus of claim 61 wherein the set of documents includes related
- 2 Web pages.
- 1 64. The apparatus of claim 61 further comprising:
- c) means for thresholding the ad set performance information.
- 1 65. The apparatus of claim 61 further comprising:
- c) means for determining a confidence measure of the ad set
- 3 performance information; and
- d) means for combining general ad set performance information and the
- 5 ad set performance information with respect to the set of documents using
- 6 the determined confidence measure.
- 1 66. The apparatus of claim 65 wherein the means for determining a confidence
- 2 measure use at least one of a data amount and a data age.
- 1 67. Apparatus comprising:
- a) an input for accepting, for a set of one or more ads, performance
- 3 information for a document; and
- b) means for scoring or modifying a score of each of one or more ads
- 5 using the accepted ad set performance information for the document.
- 1 68. The apparatus of claim 67 wherein the ad set performance information
- 2 includes selection and impression information.
- 1 69. The apparatus of claim 67 wherein the document is a Web page identified by
- 2 a URL.
- 1 70. The apparatus of claim 67 wherein the means for scoring or modifying a
- 2 scoring include:

3	i) means for determining a first ad score using, at least, general
4	performance information for the ad set, and
5	ii) means for modifying the first ad score using the accepted ad set
6	performance information for the document.
1	71. The apparatus of claim 70 wherein the means for determining a first score
2	further use, at least, document information.
4	70. The apparatus of claim 70 wherein the magnetic determining a first coord
1	72. The apparatus of claim 70 wherein the means for determining a first score
2	further use, at least, ad targeting information.
1	73. The apparatus of claim 70 wherein the means for determining a first score
2	further use, at least, ad relevance information.
1	74. The apparatus of claim 70 wherein the means for scoring or modifying a
2	scoring include:
3	i) means for determining mixed performance information using, at
4	least, general performance information for the ad set and the
5	accepted ad set performance information for the document, and
6	ii) means for scoring the ad using the determined mixed
7	performance information.
1	75. The apparatus of claim 74 wherein the means for scoring the ad further use,
2	
2	at least, document information.
1	76. The apparatus of claim 74 wherein the means for scoring the ad further use,
2	at least, ad targeting information.
1	77. The apparatus of claim 74 wherein the means for scoring the ad further use,
2	at least, ad relevance information.

- 1 78. Apparatus comprising:
- a) an input for accepting, for a set of one or more ads, performance
- 3 information for a set of documents, wherein the set of documents is a
- 4 subset of a document collection; and
- b) means for scoring or modifying a score of each of one or more ads
- 6 using the accepted ad set performance information for the set of
- 7 documents.
- 1 79. The apparatus of claim 78 wherein the ad set performance information
- 2 includes selection and impression information.
- 1 80. The apparatus of claim 78 wherein the set of documents includes related
- 2 Web pages.
- 1 81. The apparatus of claim 78 wherein the means for scoring or modifying a
- 2 score include:
- i) means for determining a first ad score using, at least, general
- 4 performance information for the ad set, and
- 5 ii) means for modifying the first ad score using the accepted ad set
- 6 performance information for the set of documents.
- 1 82. The apparatus of claim 81 wherein the means for determining a first score
- 2 further use, at least, document information.
- 1 83. The apparatus of claim 81 wherein the means for determining a first score
- 2 further use, at least, ad targeting information.
- 1 84. The apparatus of claim 81 wherein the means for determining a first score
- 2 further use, at least, ad relevance information.

1 85. The apparatus of claim 78 wherein the means for scoring or modifying a 2 score include: 3 i) means for determining mixed performance information using, at 4 least, general performance information for the ad set and the 5 accepted ad set performance information for the set of documents, 6 and 7 ii) means for scoring the ad using the determined mixed 8 performance information. 1 86. The apparatus of claim 85 wherein the means for scoring the ad further use. 2 at least, document information. 1 87. The apparatus of claim 85 wherein the means for scoring the ad further use, 2 at least, ad targeting information. 1 88. The apparatus of claim 85 wherein the means for scoring the ad further use, 2 at least, ad relevance information. 1 89. Apparatus comprising: 2 a) an input for accepting targeting function performance for a document: 3 and 4 b) means for scoring or modifying a score of each of one or more ads 5 using the accepted targeting function performance for the document. 1 90. The apparatus of claim 89 wherein the ad performance includes selection 2 and impression information. 1 91. The apparatus of claim 89 wherein the document is a Web page identified by 2 a URL. 1 92. The apparatus of claim 89 wherein the means for scoring include

2	 i) means for selecting a scoring function using, at least, the
3	accepted targeting function performance for the document, and
4	ii) means for applying ad information and document information to
5	the selected scoring function to generate a score.
1	93. The apparatus of claim 92 wherein the scoring function is a function selected
2	from a set of functions including (A) keyword targeting, (B) document content
3	targeting, and (C) host content targeting.
1	94. The apparatus of claim 89 wherein the means for scoring include
2	i) means for selecting one or more parameters of a scoring
3	function using, at least, the accepted targeting function
4	performance for the document, and
5	ii) means for applying ad information and document information to
6	the scoring function with the selected one or more parameters to
7	generate a score.
1	95. Apparatus comprising:
2	a) an input for accepting targeting function performance for a set of
3	documents; and
4	b) means for scoring or modifying a score of each of one or more ads
5	using the accepted targeting function performance for the set of
6	documents, wherein the set of documents is a subset of a document
7	collection.
1	96. The apparatus of claim 95 wherein the ad performance includes selection
2	and impression information.
1	97. The apparatus of claim 95 wherein the set of documents includes related
2	Web pages.

1	98. The apparatus of claim 95 wherein the means for scoring includes
2	i) means for selecting a scoring function using, at least, the
3	accepted targeting function performance for the set of documents,
4	and
5	ii) means for applying ad information and document information to
6	the selected scoring function to generate a score.
1	99. The apparatus of claim 98 wherein the scoring function is a function selected
2	from a set of functions including (A) keyword targeting, (B) document content
3	targeting, and (C) host content targeting.
1	100. The apparatus of claim 95 wherein the means for scoring include
2	i) means for selecting one or more parameters of a scoring
3	function using, at least, the accepted targeting function
4	performance for the set of documents, and
5	ii) means for applying ad information and document information to
6	the scoring function with the selected one or more parameters to
7	generate a score.
1	101. Apparatus for determining a set of ads eligible to be served with a
2	document, the apparatus comprising:
3	 a) means for determining a first set of ads;
4	b) an input for accepting ad performance information for the document;
5	c) means for determining a number of best performing ads for the
6	document; and
7	d) means for determining a final set of ads using the first set of ads and
8	the number of best performing ads determined.
1	102. Apparatus for determining a set of ads eligible to be served with a
2	document, the apparatus comprising:
3	a) means for determining a first set of ads;

4	b) an input for accepting ad performance information for a set of
5	documents to which the document belongs, wherein the set of documents
6	is a subset of a collection of documents;
7	c) means for determining a number of best performing ads for the set of
8	documents; and
9	d) means for determining a final set of ads using the first set of ads and
10	the number of best performing ads determined.
1	103. Apparatus comprising:
2	a) means for determining for a document, at least two concepts;
3	b) means for determining for each of the at least two concepts, one or
4	more ads;
5	c) means for determining for each of the at least two concepts, a concept
6	performance score; and
7	d) means for updating, for at least one of the ads, an ad performance
8	score using a concept performance score of the concept with which the ad
9	is associated.
1	104. The apparatus of claim 103 wherein the means for determining a concept
2	performance score use document-specific ad performance scores of ads
3	associated with the concept.
1	105. The apparatus of claim 103 wherein the document belongs to a group, and
2	wherein the means for determining a concept performance score use
3	group-specific ad performance scores of ads associated with the concept.
1	106. The apparatus of claim 105 wherein the document is a Web page and
2	wherein the group is Web pages belonging to a Website.
1	107. The apparatus of claim 105 wherein the group is a cluster of related
2	documents.

- 1 108. The apparatus of claim 105 wherein the group is a classification of
- 2 documents.